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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,033	03/16/2004	Motohiro Hayashi	4074-11	1260

			EXAMINER
23117	7590	11/02/2006	SCHNEIDER, JOSHUA D

NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

ART UNIT	PAPER NUMBER
2182	

DATE MAILED: 11/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/801,033	HAYASHI ET AL.
	Examiner	Art Unit	
	Joshua D. Schneider	2182	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>10 August 2006</u>.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) <u>1-18</u> is/are pending in the application.

    4a) Of the above claim(s) <u>5, 10 and 12-18</u> is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) <u>1-4, 6-9, and 11</u> is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All b) ☐ Some * c) ☐ None of:

      1. ☒ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____.

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date <u>1/17/06, 3/16/04</u>.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1.   Applicant's election without traverse of Group I in the reply filed on 8/10/2006 is

acknowledged.

2.   Claims 5, 10, and 12-18 are withdrawn from further consideration pursuant to 37 CFR

1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking

claim. Election was made **without** traverse in the reply filed on 8/10/2006.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4.   Claims 1-4, 6-9, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by USB

Specification Revision 1.1. No copy of the specification is being provided as is it widely

available and USB is admitted to be well known by the Applicants.

5.   With regards to claim 1, the USB specification teaches transmitting identification

information from the apparatus to be controlled to the controlling apparatus (host to hub endpoint

identification and enumeration); and changing the identification information to be transmitted,

when a specification of the apparatus to be controlled is changed (status change information

transmitted through status change endpoint).

6.   With regards to claim 2, the USB specification teaches detecting a change in a

specification (status polling); and setting identification information to be transmitted, on the

basis of the detected change in the specification (status change information transmitted through status change endpoint).

7.   With regards to claim 3, the USB specification teaches extracting identification information corresponding to the detected change, from the storage unit (device configuration and enumeration); and setting the extracted identification information as identification information to be transmitted (status change information transmitted through status change endpoint).

8.   With regards to claim 4, the USB specification teaches a connection unit for connecting another device (USB hub); and a processor capable of performing the operations (USB hub controller) of: detecting a change in a situation of connection of the device to the connection unit (device state events); and setting identification information to be transmitted, on the basis of the detected change in the situation of connection (status change information transmitted through status change endpoint).

9.   With regards to claim 6, the USB specification teaches extracting identification information corresponding to the detected change, from the storage unit (device configuration and enumeration); and setting the extracted identification information as identification information to be transmitted (status change information transmitted through status change endpoint).

10.   With regards to claim 7, the USB specification teaches an apparatus to be controlled (USB hub) by an apparatus to which identification information for identifying the apparatus to be controlled is transmitted (USB host); and a controlling apparatus for controlling the apparatus to be controlled on the basis of the identification information (USB host controller), the apparatus

to be controlled including a processor capable of performing the operations of: detecting a change in a specification (device configuration and enumeration); and setting identification information to be transmitted, on the basis of the detected change in the specification (status change information transmitted through status change endpoint).

11. With regards to claim 8, the USB specification teaches an apparatus to be controlled (USB hub) by an apparatus to which identification information for identifying the apparatus to be controlled is transmitted (USB host controller); and a controlling apparatus for controlling the apparatus to be controlled on the basis of the identification information (USB host), the apparatus to be controlled including: a connection unit for connecting another device (USB downstream port); and a processor capable of performing the operations of detecting a change in a situation of connection of the device to the connection unit (USB hub controller); and setting identification information to be transmitted, on the basis of the detected change in the situation of connection (status change information transmitted through status change endpoint).

12. With regards to claim 9, the USB specification teaches an apparatus to be controlled (USB hub) by an apparatus to which identification information for identifying the apparatus to be controlled is transmitted (USB host), and which includes: a connection unit for connecting another device (USB host interface); and a processor capable of performing the operations of detecting a change in a situation of connection of the device to the connection unit (USB hub controller); and setting identification information to be transmitted, on the basis of the detected change in the situation of connection (status change information transmitted through status change endpoint); an attached device connected to the connection unit provided in the apparatus to be controlled (downstream, hub connected, USB device); and a controlling apparatus for

controlling the apparatus to be controlled and the attached device on the basis of the

identification information (USB host controller).

13.   With regards to claim 11, the USB specification teaches extracting identification

information corresponding to the detected change, from the storage unit (device configuration

and enumeration); and setting the extracted identification information as identification

information to be transmitted (status change information transmitted through status change

endpoint).

Conclusion

14.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. U.S. Patent Application Publication 2003/0043771 to Mizutani et al. teaches the

connection establishment of downstream USB devices through a wireless controller that detects

state changes. U.S. Patent Application Publication 2002/0011516 to Lee teaches a USB hub

device that detects the presence of both downstream devices and integrated memory devices in

order to provide information to a host device.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joshua D. Schneider whose telephone number is (571) 272-4158.

The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kim Huynh can be reached on (571) 272-4147. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JDS

TAMMARA PEYTON
PRIMARY EXAMINER